

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

$$\gamma_{LV} \cdot \cos \theta = \gamma_{SV} - \gamma_{SL}$$

γ : FREE ENERGY PER UNIT AREA
OR SURFACE TENSION

L: LIQUID

S: SOLID

V: VAPOR

SL: SOLID/LIQUID INTERFACE

θ : CONTACT ANGLE

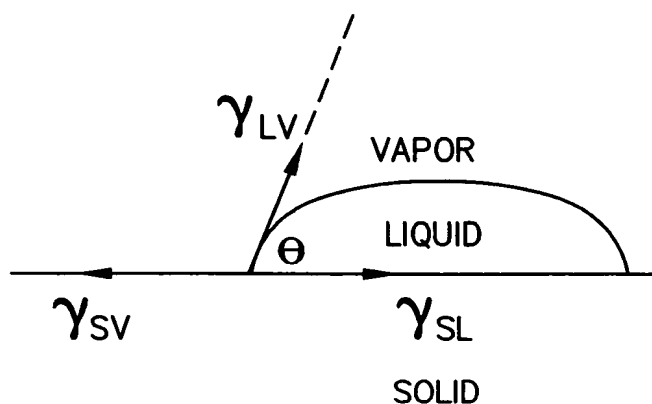
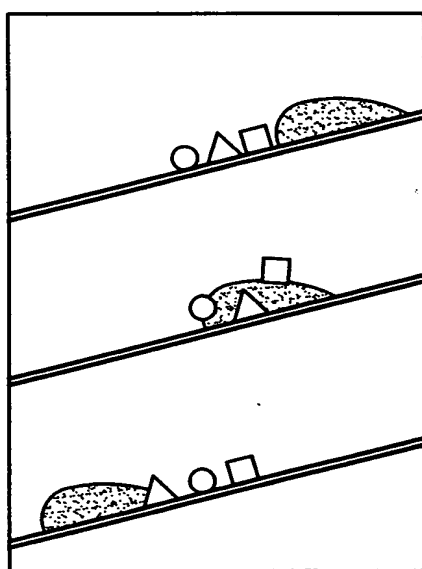
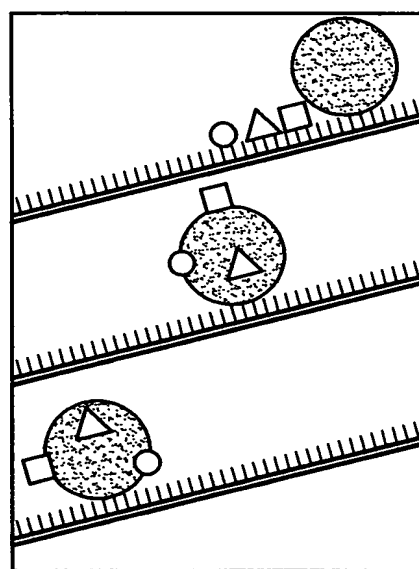


Figure -1-

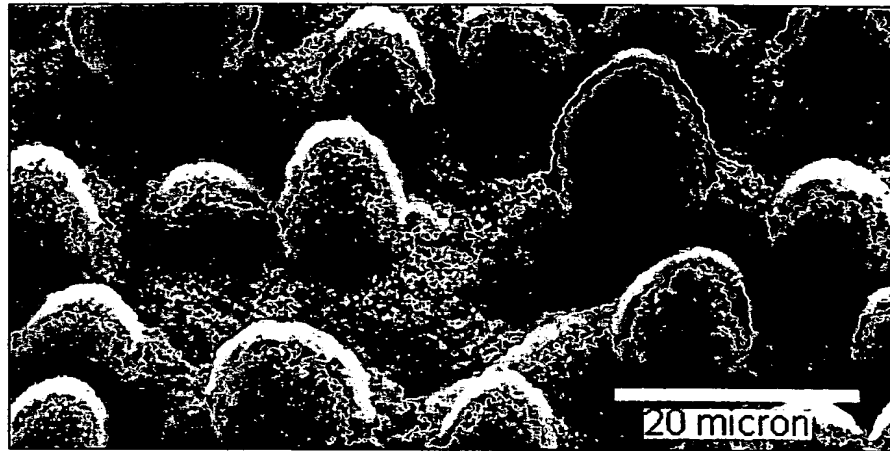


SMOOTH SURFACE



ROUGH SURFACE

Figure -2-



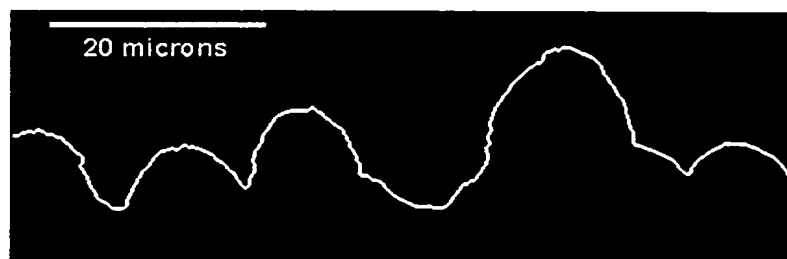
LOTUS LEAF STRUCTURE

Figure -3-



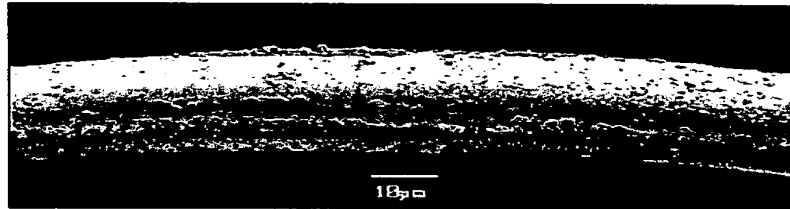
LOTUS STRUCTURE

Figure -3A-



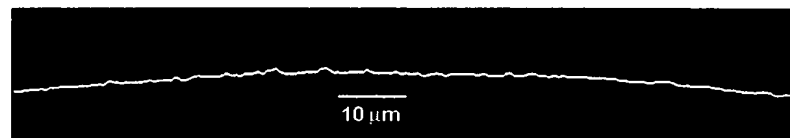
LOTUS PROFILE

Figure -3B-



PRIOR ART

Figure -4-



PRIOR ART PROFILE

Figure -4A-

CASE 5602
4/9

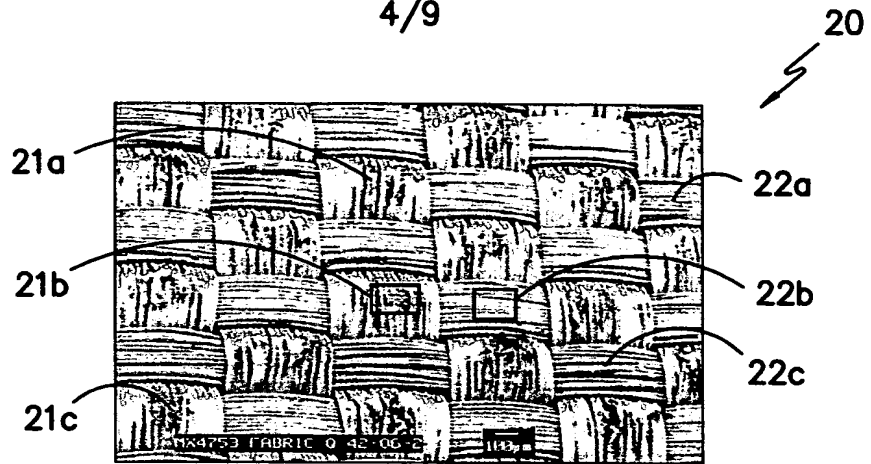


Figure -5-

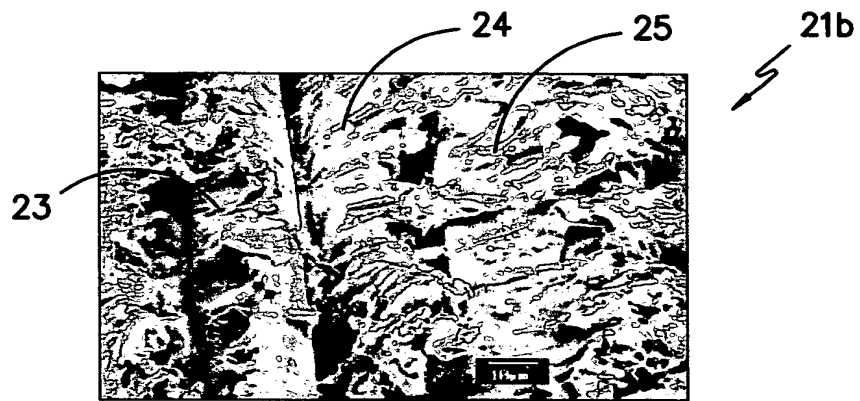


Figure -5A-

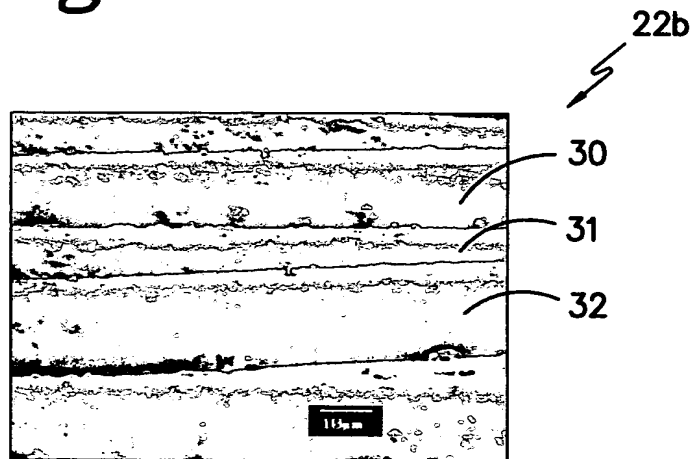


Figure -5B-

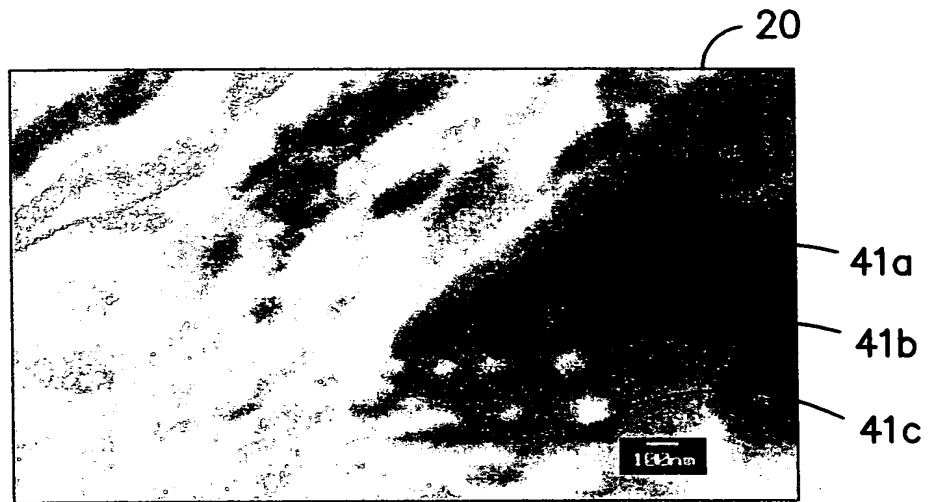


Figure -5C-

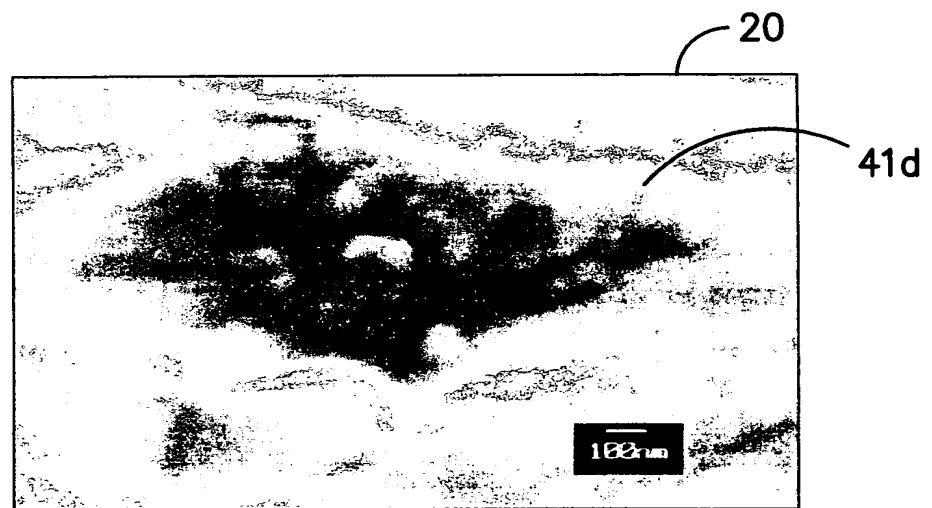
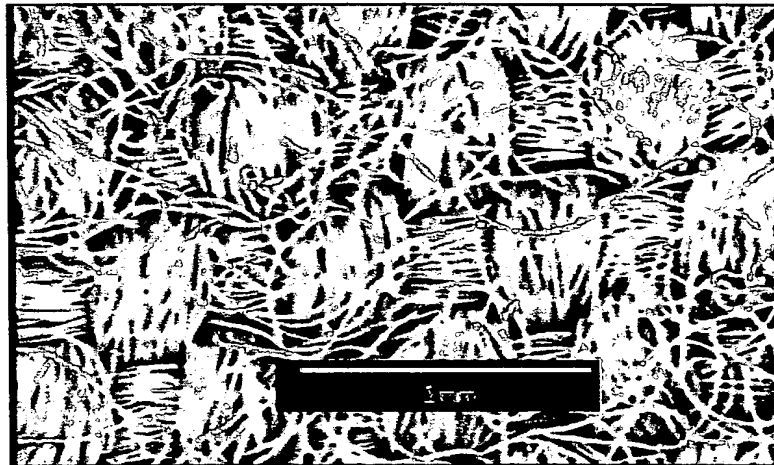


Figure -5D-



40

Figure -6-

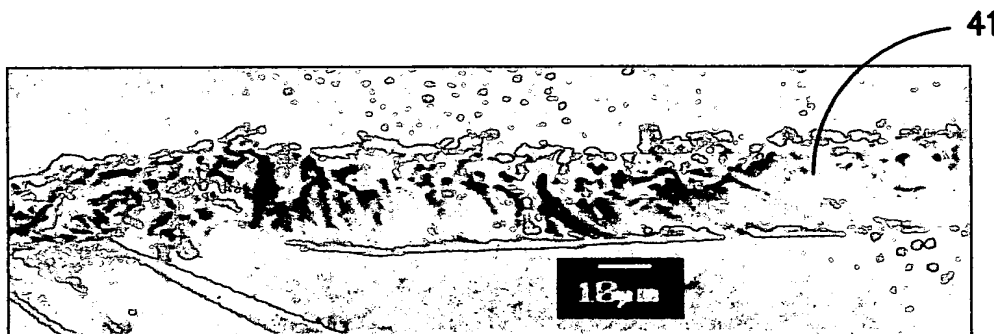


Figure -7A-



Figure -7B-



Figure -7C-

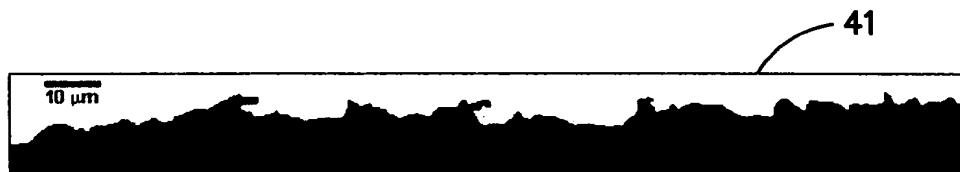


Figure -7D-



Figure -7E-

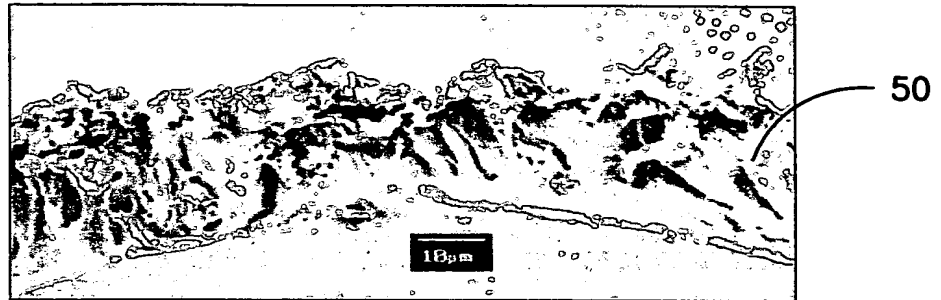


Figure -8A-

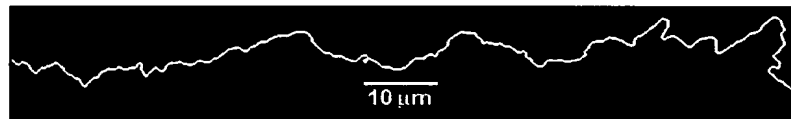


Figure -8B-

CASE 5602
9/9

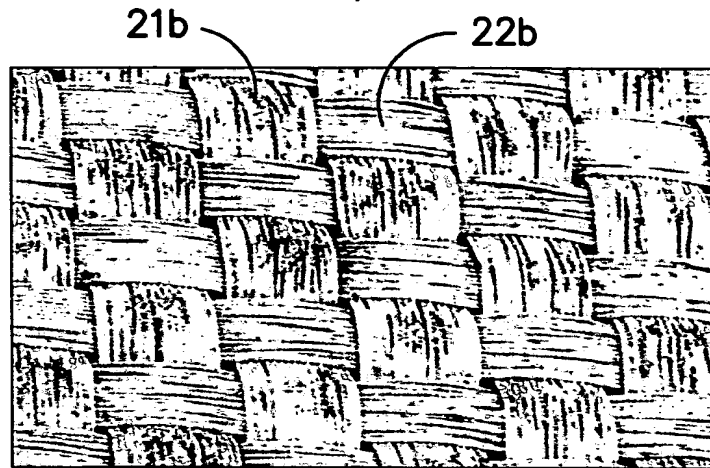


FIG. -9A-

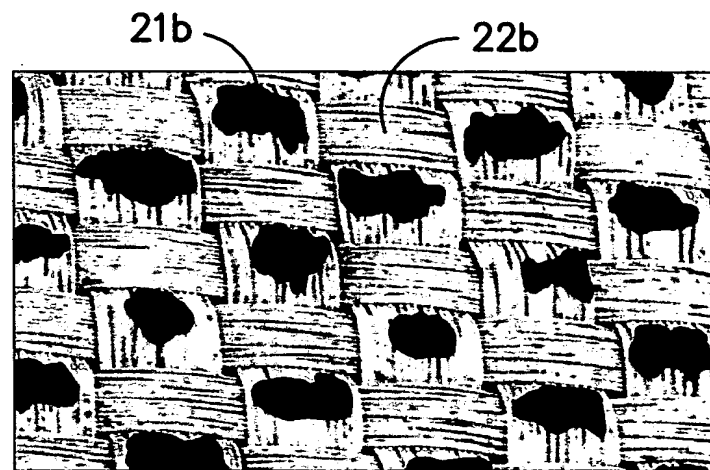


FIG. -9B-

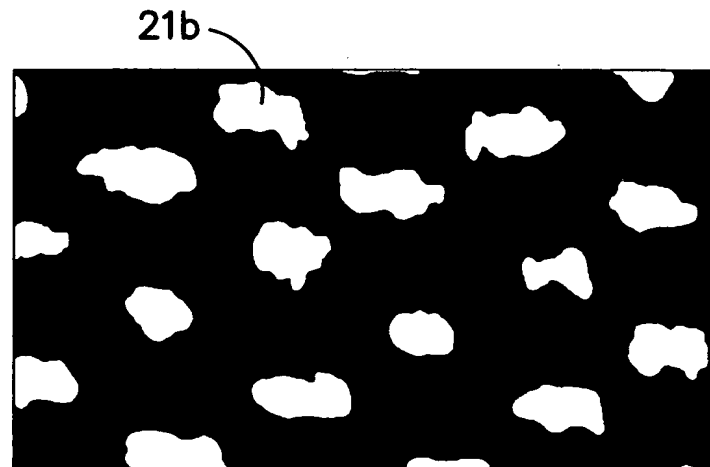


FIG. -9C-